1

SEQUENCE LISTING

<110> Takeda Chemical Industries, Ltd.

<120> Screening Method Using CD100

5   <130> 2611W00P

<150> JP 11-157111

<151> 1999-06-03

<160> 10

<210> 1

10   <211> 861

<212> PRT

<213> Mouse

<400> 1

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Val Leu Arg Thr Ala Val Ala Phe Ala Pro Val Pro Arg Leu Thr Trp
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Glu His Gly Glu Val Gly Leu Val Gln Phe His Lys Pro Gly Ile Phe
                35   40   45

20   Asn Tyr Ser Ala Leu Leu Met Ser Glu Asp Lys Asp Thr Leu Tyr Val
                    50   55   60

Gly Ala Arg Glu Ala Val Phe Ala Val Asn Ala Leu Asn Ile Ser Glu
       65   70   75   80

Lys Gln His Glu Val Tyr Trp Lys Val Ser Glu Asp Lys Lys Ser Lys
25   85   90   95

Cys Ala Glu Lys Gly Lys Ser Lys Gln Thr Glu Cys Leu Asn Tyr Ile
                    100   105   110

Arg Val Leu Gln Pro Leu Ser Ser Thr Ser Leu Tyr Val Cys Gly Thr
                    115   120   125

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    Asn Ala Phe Gln Pro Thr Cys Asp His Leu Asn Leu Thr Ser Phe Lys
        130             135             140

    Phe Leu Gly Lys Ser Glu Asp Gly Lys Gly Arg Cys Pro Phe Asp Pro
    145             150             155             160

5   Ala His Ser Tyr Thr Ser Val Met Val Gly Gly Glu Leu Tyr Ser Gly
                165             170             175

    Thr Ser Tyr Asn Phe Leu Gly Ser Glu Pro Ile Ile Ser Arg Asn Ser
                180             185             190

    Ser His Ser Pro Leu Arg Thr Glu Tyr Ala Ile Pro Trp Leu Asn Glu
10              195             200             205

    Pro Ser Phe Val Phe Ala Asp Val Ile Gln Lys Ser Pro Asp Gly Pro
        210             215             220

    Glu Gly Glu Asp Asp Lys Val Tyr Phe Phe Phe Thr Glu Val Ser Val
    225             230             235             240

15  Glu Tyr Glu Phe Val Phe Lys Leu Met Ile Pro Arg Val Ala Arg Val
                245             250             255

    Cys Lys Gly Asp Gln Gly Gly Leu Arg Thr Leu Gln Lys Lys Trp Thr
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    Ser Phe Leu Lys Ala Arg Leu Ile Cys Ser Lys Pro Asp Ser Gly Leu
20          275             280             285

    Val Phe Asn Ile Leu Gln Asp Val Phe Val Leu Arg Ala Pro Gly Leu
        290             295             300

    Lys Glu Pro Val Phe Tyr Ala Val Phe Thr Pro Gln Leu Asn Asn Val
    305             310             315             320

25  Gly Leu Ser Ala Val Cys Ala Tyr Thr Leu Ala Thr Val Glu Ala Val
                325             330             335

    Phe Ser Arg Gly Lys Tyr Met Gln Ser Ala Thr Val Glu Gln Ser His
                340             345             350

    Thr Lys Trp Val Arg Tyr Asn Gly Pro Val Pro Thr Pro Arg Pro Gly
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 5      385          .          390                      395                      400
        Asp Asp Ser Val Thr Pro Ile Asp Asn Arg Pro Lys Leu Ile Lys Lys
                    . 405                      410                      415
        Asp Val Asn Tyr Thr Gln Ile Val Val Asp Arg Thr Gln Ala Leu Asp
                  420                      425                      430
 10     Gly Thr Phe Tyr Asp Val Met Phe Ile Ser Thr Asp Arg Gly Ala Leu
                  435                      440                      445
        His Lys Ala Val Ile Leu Thr Lys Glu Val His Val Ile Glu Glu Thr
                  450                      455                      460
        Gln Leu Phe Arg Asp Phe Glu Pro Val Leu Thr Leu Leu Leu Ser Ser
 15     465                      470                      475                      480
        Lys Lys Gly Arg Lys Phe Val Tyr Ala Gly Ser Asn Ser Gly Val Val
                            485                      490                      495
        Gln Ala Pro Leu Ala Phe Cys Glu Lys His Gly Ser Cys Glu Asp Cys
                  500                      505                      510
 20     Val Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Pro Ala Ile Lys Ala
                  515                      520                      525
        Cys Val Thr Leu His Gln Glu Glu Ala Ser Ser Arg Gly Trp Ile Gln
                  530                      535                      540
        Asp Met Ser Gly Asp Thr Ser Ser Cys Leu Asp Lys Ser Lys Glu Ser
 25     545                      550                      555                      560
        Phe Asn Gln His Phe Phe Lys His Gly Gly Thr Ala Glu Leu Lys Cys
                            565                      570                      575
        Phe Gln Lys Ser Asn Leu Ala Arg Val Val Trp Lys Phe Gln Asn Gly
                  580                      585                      590
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Glu Leu Lys Ala Ala Ser Pro Lys Tyr Gly Phe Val Gly Arg Lys His
    595   600   605

Leu Leu Ile Phe Asn Leu Ser Asp Gly Asp Ser Gly Val Tyr Gln Cys
    610   615   620

5   Leu Ser Glu Glu Arg Val Arg Asn Lys Thr Val Ser Gln Leu Leu Ala
625   630   635   640

Lys His Val Leu Glu Val Lys Met Val Pro Arg Thr Pro Pro Ser Pro
         645   650   655

Thr Ser Glu Asp Val Gln Thr Glu Gly Ser Lys Ile Thr Ser Lys Met
10   660   665   670

Pro Val Gly Ser Thr Gln Gly Ser Ser Pro Pro Thr Pro Ala Leu Trp
        675   680   685

Ala Thr Ser Pro Arg Ala Ala Thr Leu Pro Pro Lys Ser Ser Ser Gly
    690   695   700

15 Thr Ser Cys Glu Pro Lys Met Val Ile Asn Thr Val Pro Gln Leu His
705   710   715   720

Ser Glu Lys Thr Val Tyr Leu Lys Ser Ser Asp Asn Arg Leu Leu Met
        725   730   735

Ser Leu Leu Leu Phe Ile Phe Val Leu Phe Leu Cys Leu Phe Ser Tyr
20   740   745   750

Asn Cys Tyr Lys Gly Tyr Leu Pro Gly Gln Cys Leu Lys Phe Arg Ser
    755   760   765

Ala Leu Leu Leu Gly Lys Lys Thr Pro Lys Ser Asp Phe Ser Asp Leu
    770   775   780

25 Glu Gln Ser Val Lys Glu Thr Leu Val Glu Pro Gly Ser Phe Ser Gln
785   790   795   800

Gln Asn Gly Asp His Pro Lys Pro Ala Leu Asp Thr Gly Tyr Glu Thr
        805   810   815

Glu Gln Asp Thr Ile Thr Ser Lys Val Pro Thr Asp Arg Glu Asp Ser

	820			825			830		
Gln	Arg	Ile	Asp	Glu	Leu	Ser	Ala	Arg	Asp	Lys	Pro	Phe	Asp	Val	Lys
	835			840			845		

	850			855			860		
Cys	Glu	Leu	Lys	Phe	Ala	Asp	Ser	Asp	Ala	Asp	Gly	Asp

5

<210> 2

<211> 2769

<212> DNA

<213> Mouse

10   <400> 2

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       gcggtggcat ttgcacctgt gcctcggctc acctgggaac atggagaggt aggtctggtg   180
       cagtttcaca agccaggcat ctttaactac tcggccttgc tgatgagtga ggacaaagac   240
15     actctgtatg taggcgcccg ggaagcagtc tttgcagtga atgcgctgaa catctctgag   300
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       gggaaatcaa agcagacgga atgcctaaac tacattcgag tactacagcc actaagcagc   420
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25     cagggcggcc tgcggacttt gcaaaaaaag tggacctcct tcctaaaggc caggctgatc   900
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<210> 3

<211> 862

<212> PRT

<213> Human

<400> 3

Met Arg Met Cys Thr Pro Ile Arg Gly Leu Leu Met Ala Leu Ala Val
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Met Phe Gly Thr Ala Met Ala Phe Ala Pro Ile Pro Arg Ile Thr Trp
               20   25   30

Glu His Arg Glu Val His Leu Val Gln Phe His Glu Pro Asp Ile Tyr
               35   40   45

Asn Tyr Ser Ala Leu Leu Leu Ser Glu Asp Lys Asp Thr Leu Tyr Ile
          50   55   60

Gly Ala Arg Glu Ala Val Phe Ala Val Asn Ala Leu Asn Ile Ser Glu
65   70   75   80

Lys Gln His Glu Val Tyr Trp Lys Val Ser Glu Asp Lys Lys Ala Lys
               85   90   95

Cys Ala Glu Lys Gly Lys Ser Lys Gln Thr Glu Cys Leu Asn Tyr Ile
               100   105   110

Arg Val Leu Gln Pro Leu Ser Ala Thr Ser Leu Tyr Val Cys Gly Thr
               115   120   125

Asn Ala Phe Gln Pro Ala Cys Asp His Leu Asn Leu Thr Ser Phe Lys
          130   135   140

Phe Leu Gly Lys Asn Glu Asp Gly Lys Gly Arg Cys Pro Phe Asp Pro
145   150   155   160

Ala His Ser Tyr Thr Ser Val Met Val Asp Gly Glu Leu Tyr Ser Gly
               165   170   175

Thr Ser Tyr Asn Phe Leu Gly Ser Glu Pro Ile Ile Ser Arg Asn Ser
               180   185   190

Ser His Ser Pro Leu Arg Thr Glu Tyr Ala Ile Pro Trp Leu Asn Glu

```
                195                     200                     205
        Pro Ser Phe Val Phe Ala Asp Val Ile Arg Lys Ser Pro Asp Ser Pro
                210                     215                     220
        Asp Gly Glu Asp Asp Arg Val Tyr Phe Phe Phe Thr Glu Val Ser Val
 5      225                     230                     235                     240
        Glu Tyr Glu Phe Val Phe Arg Val Leu Ile Pro Arg Ile Ala Arg Val
                                245                     250                     255
        Cys Lys Gly Asp Gln Gly Gly Leu Arg Thr Leu Gln Lys Lys Trp Thr
                        260                     265                     270
10      Ser Phe Leu Lys Ala Arg Leu Ile Cys Ser Arg Pro Asp Ser Gly Leu
                        275                     280                     285
        Val Phe Asn Val Leu Arg Asp Val Phe Val Leu Arg Ser Pro Gly Leu
                        290                     295                     300
        Lys Val Pro Val Phe Tyr Ala Leu Phe Thr Pro Gln Leu Asn Asn Val
15      305                     310                     315                     320
        Gly Leu Ser Ala Val Cys Ala Tyr Asn Leu Ser Thr Ala Glu Glu Val
                        325                     330                     335
        Phe Ser His Gly Lys Tyr Met Gln Ser Thr Thr Val Glu Gln Ser His
                        340                     345                     350
20      Thr Lys Trp Val Arg Tyr Asn Gly Pro Val Pro Lys Pro Arg Pro Gly
                        355                     360                     365
        Ala Cys Ile Asp Ser Glu Ala Arg Ala Ala Asn Tyr Thr Ser Ser Leu
                        370                     375                     380
        Asn Leu Pro Asp Lys Thr Leu Gln Phe Val Lys Asp His Pro Leu Met
25      385                     390                     395                     400
        Asp Asp Ser Val Thr Pro Ile Asp Asn Arg Pro Arg Leu Ile Lys Lys
                        405                     410                     415
        Asp Val Asn Tyr Thr Gln Ile Val Val Asp Arg Thr Gln Ala Leu Asp
                        420                     425                     430
```

Gly Thr Val Tyr Asp Val Met Phe Val Ser Thr Asp Arg Gly Ala Leu
      435   440   445

His Lys Ala Ile Ser Leu Glu His Ala Val His Ile Ile Glu Glu Thr
      450   455   460

5   Gln Leu Phe Gln Asp Phe Glu Pro Val Gln Thr Leu Leu Leu Ser Ser
465   470   475   480

Lys Lys Gly Asn Arg Phe Val Tyr Ala Gly Ser Asn Ser Gly Val Val
             485   490   495

Gln Ala Pro Leu Ala Phe Cys Gly Lys His Gly Thr Cys Glu Asp Cys
10   500   505   510

Val Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser Pro Pro Thr Ala Thr
      515   520   525

Cys Val Ala Leu His Gln Thr Glu Ser Pro Ser Arg Gly Leu Ile Gln
      530   535   540

15   Glu Met Ser Gly Asp Ala Ser Val Cys Pro Asp Lys Ser Lys Gly Ser
545   550   555   560

Tyr Arg Gln His Phe Phe Lys His Gly Gly Thr Ala Glu Leu Lys Cys
             565   570   575

Ser Gln Lys Ser Asn Leu Ala Arg Val Phe Trp Lys Phe Gln Asn Gly
20   580   585   590

Val Leu Lys Ala Glu Ser Pro Lys Tyr Gly Leu Met Gly Arg Lys Asn
      595   600   605

Leu Leu Ile Phe Asn Leu Ser Glu Gly Asp Ser Gly Val Tyr Gln Cys
      610   615   620

25   Leu Ser Glu Glu Arg Val Lys Asn Lys Thr Val Phe Gln Val Val Ala
625   630   635   640

Lys His Val Leu Glu Val Lys Val Val Pro Lys Pro Val Val Ala Pro
             645   650   655

Thr Leu Ser Val Val Gln Thr Glu Gly Ser Arg Ile Ala Thr Lys Val

```
                 660                    665                    670
     Leu Val Ala Ser Thr Gln Gly Ser Ser Pro Pro Thr Pro Ala Val Gln
             675                    680                    685
     Ala Thr Ser Ser Gly Ala Ile Thr Leu Pro Pro Lys Pro Ala Pro Thr
 5           690                    695                    700
     Gly Thr Ser Cys Glu Pro Lys Ile Val Ile Asn Thr Val Pro Gln Leu
     705                    710                    715                    720
     His Ser Glu Lys Thr Met Tyr Leu Lys Ser Ser Asp Asn Arg Leu Leu
                     725                    730                    735
10   Met Ser Leu Phe Leu Phe Phe Phe Val Leu Phe Leu Cys Leu Phe Phe
                     740                    745                    750
     Tyr Asn Cys Tyr Lys Gly Tyr Leu Pro Arg Gln Cys Leu Lys Phe Arg
                 755                    760                    765
     Ser Ala Leu Leu Ile Gly Lys Lys Lys Pro Lys Ser Asp Phe Cys Asp
15           770                    775                    780
     Arg Glu Gln Ser Leu Lys Glu Thr Leu Val Glu Pro Gly Ser Phe Ser
     785                    790                    795                    800
     Gln Gln Asn Gly Glu His Pro Lys Pro Ala Leu Asp Thr Gly Tyr Glu
                     805                    810                    815
20   Thr Glu Gln Asp Thr Ile Thr Ser Lys Val Pro Thr Asp Arg Glu Asp
                     820                    825                    830
     Ser Gln Arg Ile Asp Asp Leu Ser Ala Arg Asp Lys Pro Phe Asp Val
                 835                    840                    845
     Lys Cys Glu Leu Lys Phe Ala Asp Ser Asp Ala Asp Gly Asp
25           850                    855                    860
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<210> 4

<211> 4157

<212> DNA

<213> Human

<400> 4

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ccagtccaga ccctgctgct gtcttcaaag aagggcaaca ggtttgtcta tgctggctct  1560

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<210> 5

<211> 361

<212> PRT

<213> Mouse

<400> 5

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Leu Lys Asn Ser Ala Ser Asn His Leu Gly Gln Asp Cys Glu Ala Tyr
                 20                 25                  30
Glu Asp Gly Glu Leu Thr Tyr Glu Asn Val Gln Val Ser Pro Val Pro
             35                 40                  45
Gly Gly Pro Pro Gly Leu Ala Ser Pro Ala Leu Ala Asp Lys Ala Gly
         50                 55                  60
Val Gly Ser Glu Gln Pro Thr Ala Thr Trp Ser Ser Val Asn Ser Ser
65                 70                 75                  80
Ala Leu Arg Gln Ile Pro Arg Cys Pro Thr Val Cys Leu Gln Tyr Phe
```

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    Leu Leu Gly Leu Leu Val Ser Cys Leu Met Leu Gly Val Ala Val Ile
                    100   105   110
    Cys Leu Gly Val Arg Tyr Leu Gln Val Ser Arg Gln Phe Gln Glu Gly
5   115   120   125
    Thr Arg Ile Trp Glu Ala Thr Asn Ser Ser Leu Gln Gln Gln Leu Arg
            130   135   140
    Glu Lys Ile Ser Gln Leu Gly Gln Lys Glu Val Glu Leu Gln Lys Ala
    145   150   155   160
10 Arg Lys Glu Leu Ile Ser Ser Gln Asp Thr Leu Gln Glu Lys Gln Arg
                    165   170   175
    Thr His Glu Asp Ala Glu Gln Gln Leu Gln Ala Cys Gln Ala Glu Arg
                    180   185   190
    Ala Lys Thr Lys Glu Asn Leu Lys Thr Glu Glu Glu Arg Arg Arg Asp
15   195   200   205
    Leu Asp Gln Arg Leu Thr Ser Thr Arg Glu Thr Leu Arg Arg Phe Phe
            210   215   220
    Ser Asp Ser Ser Asp Thr Cys Cys Pro Cys Gly Trp Ile Pro Tyr Gln
    225   230   235   240
20 Glu Arg Cys Phe Tyr Ile Ser His Thr Leu Gly Ser Leu Glu Glu Ser
                    245   250   255
    Gln Lys Tyr Cys Thr Ser Leu Ser Ser Lys Leu Ala Ala Phe Asp Glu
                    260   265   270
    Pro Ser Lys Tyr Tyr Tyr Glu Tyr Leu Ser Asp Ala Pro Gln Val Ser
25   275   280   285
    Leu Pro Ser Gly Leu Glu Glu Leu Leu Asp Arg Ser Lys Ser Tyr Trp
            290   295   300
    Ile Gln Met Ser Lys Lys Trp Arg Gln Asp Ser Asp Ser Gln Ser Arg
    305   310   315   320

His Cys Val Arg Ile Lys Thr Tyr Tyr Gln Lys Trp Glu Arg Thr Ile
              325   330   335

Ser Lys Cys Ala Glu Leu His Pro Cys Ile Cys Glu Ser Glu Ala Phe
              340   345   350

5   Arg Phe Pro Asp Gly Ile Asn Leu Asn
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<211> 1357

<212> DNA

10 <213> Mouse

<400> 6

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aggcctatga agatggggaa ctcacctacg agaatgtgca agtgtctcca gtcccaggag  180
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15
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ggccaccagg cttggcttcc cctgcactag cggacaaagc aggggtcggg tcagagcaac  240

caactgcgac ctggagctct gtgaactcgt ctgctctcag gcagattccc cgctgtccta  300

cagtctgctt gcaatacttc ttgcttggcc ttctcgtgtc ctgtctgatg ttaggggtgg  360

ctgtcatctg cctgggagtt cgctatctgc aggtgtctcg gcagttccag gaggggacca  420

ggatttggga agccaccaat agcagcctgc agcagcagct cagggagaag ataagtcagc  480
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20
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accagaggtt gacaagcacg cgggagacac tgaggcgctt cttctctgat tcatcagaca  720

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25
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cagctaaggg atgacctgct gcttgcttga aagctgctcc agaaactgga cttctcttgg 1260

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<211> 359

<212> PRT

<213> Human

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15   Asp Asp Gly Glu Ile Thr Tyr Glu Asn Val Gln Val Pro Ala Val Leu
                    35   40   45

Gly Val Pro Ser Ser Leu Ala Ser Ser Val Leu Gly Asp Lys Ala Ala
                    50   55   60

Val Lys Ser Glu Gln Pro Thr Ala Ser Trp Arg Ala Val Thr Ser Pro
20   65   70   75   80

Ala Val Gly Arg Ile Leu Pro Cys Arg Thr Thr Cys Leu Arg Tyr Leu
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Leu Leu Gly Leu Leu Leu Thr Cys Leu Leu Leu Gly Val Thr Ala Ile
                    100   105   110

Cys Leu Gly Val Arg Tyr Leu Gln Val Ser Gln Gln Leu Gln Gln Thr
25   115   120   125

Asn Arg Val Leu Glu Val Thr Asn Ser Ser Leu Arg Gln Gln Leu Arg
     130   135   140

Leu Lys Ile Thr Gln Leu Gly Gln Ser Ala Glu Asp Leu Gln Gly Ser

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     145                    150                    155                    160
     Arg Arg Glu Leu Ala Gln Ser Gln Glu Ala Leu Gln Val Glu Gln Arg
                         165                    170                    175
     Ala His Gln Ala Ala Glu Gly Gln Leu Gln Ala Cys Gln Ala Asp Arg
5                        180                    185                    190
     Gln Lys Thr Lys Glu Thr Leu Gln Ser Glu Glu Gln Gln Arg Arg Ala
                         195                    200                    205
     Leu Glu Gln Lys Leu Ser Asn Met Glu Asn Arg Leu Lys Pro Phe Phe
                210                    215                    220
10   Thr Cys Gly Ser Ala Asp Thr Cys Cys Pro Ser Gly Trp Ile Met His
     225                    230                    235                    240
     Gln Lys Ser Cys Phe Tyr Ile Ser Leu Thr Ser Lys Asn Trp Gln Glu
                         245                    250                    255
     Ser Gln Lys Gln Cys Glu Thr Leu Ser Ser Lys Leu Ala Thr Phe Ser
15                       260                    265                    270
     Glu Ile Tyr Pro Gln Ser His Ser Tyr Tyr Phe Leu Asn Ser Leu Leu
                275                    280                    285
     Pro Asn Gly Gly Ser Gly Asn Ser Tyr Trp Thr Gly Leu Ser Ser Asn
                290                    295                    300
20   Lys Asp Trp Lys Leu Thr Asp Asp Thr Gln Arg Thr Arg Thr Tyr Ala
     305                    310                    315                    320
     Gln Ser Ser Lys Cys Asn Lys Val His Lys Thr Trp Ser Trp Trp Thr
                         325                    330                    335
     Leu Glu Ser Glu Ser Cys Arg Ser Ser Leu Pro Tyr Ile Cys Glu Met
25                       340                    345                    350
     Thr Ala Phe Arg Phe Pro Asp
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<211> 1531

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<211> 32

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<213> Artificial Sequence

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<223>

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15 <400> 10

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